

SEQUENCE LISTING

<110> Paszty, Christopher
Gao, Yongming

<120> Cysteine Knot Polypeptides: Cloaked-2 Molecules and Uses Thereof

<130> 01017/37428

<150> US 06/208,550
<151> 2000-06-01

<150> US 06/223,542
<151> 2000-08-04

<160> 25

<170> PatentIn version 3.0

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<211> 759
<212> DNA
<213> Homo sapiens

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ctcgtctgco tgctggtaca cacagccttc cgtgtagtgg agggccagggt gtggcaggcg 120

ttcaagaatg atgccacgga aatcatcccc gagctcggag agtaccocga gcctccaccg 180

gagctggaga acaacaagac catgaaccgg gcggagaacg gagggcgggc tccccaccac 240

ccctttgaga ccaaagacgt gtccgagtag agctgccgag agctgcactt caccgcctac 300

gtgaccgatg gggcgtgccc cagcgccaag ccggtcaccg agctgggtgtg ctccggccag 360

tgcgggccgg cgcgctgtgt gcccaacgcc atcggccgag gcaagtgggtg gcgacctagt 420

gggcccgaact tccgtgcat ccccgaccgc taccgcgcgc agcgcgtgca gctgctgtgt 480

cccggtgtgt aggcgcggcg cgcgcgcaag gtgcgcctgtg tggcctcgtg caagtgcaa 540

cgctccaccg gcttcacaaa ccagtcggag ctcaaggact tcgggaccga ggcgcgtcgg 600

cgcgagaagg gccggaagcc gcggccccgc gcccggaagc ccaaagccaa ccaggccgag 660

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gaacccgcgc cccacatttc tgcctctgc gcgtgggtt 759

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636

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Gln Gly Trp Gln Ala Phe Arg Asn Asp Ala Thr Glu Val Ile Pro Gly
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Leu Gly Glu Tyr Pro Glu Pro Pro Pro Glu Asn Asn Gln Thr Met Asn
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Arg Ala Glu Asn Gly Gly Arg Pro Pro His His Pro Tyr Asp Ala Lys
35 40 45
Asp Val Ser Glu Tyr Ser Cys Arg Glu Leu His Tyr Thr Arg Phe Leu
50 55 60
Thr Asp Gly Pro Cys Arg Ser Ala Lys Pro Val Thr Glu Leu Val Cys
65 70 75 80
Ser Gly Gln Cys Gly Pro Ala Arg Leu Leu Pro Asn Ala Ile Gly Arg
85 90 95
Val Lys Trp Trp Arg Pro Asn Gly Pro Asp Phe Arg Cys Ile Pro Asp
100 105 110
Arg Tyr Arg Ala Gln Arg Val Gln Leu Leu Cys Pro Gly Gly Ala Ala
115 120 125
Pro Arg Ser Arg Lys Val Arg Leu Val Ala Ser Cys Lys Cys Lys Arg
130 135 140
Leu Thr Arg Phe His Asn Gln Ser Glu Leu Lys Asp Phe Gly Pro Glu
145 150 155 160
Thr Ala Arg Pro Gln Lys Gly Arg Lys Pro Arg Pro Gly Ala Lys Ala
165 170 175
Asn Gln Ala Glu Leu Glu Asn Ala Tyr
180 185

<210> 5
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<213> Homo sapiens

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Met Gln Leu Pro Leu Ala Leu Cys Leu Val Cys Leu Leu Val His Thr
1 5 10 15
Ala Phe Arg Val Val Glu Gly Gln Gly Trp Gln Ala Phe Lys Asn Asp
20 25 30
Ala Thr Glu Ile Ile Pro Glu Leu Gly Glu Tyr Pro Glu Pro Pro Pro
35 40 45

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Glu Leu Glu Asn Asn Lys Thr Met Asn Arg Ala Glu Asn Gly Gly Arg
 50 55 60
 Pro Pro His His Pro Phe Glu Thr Lys Asp Val Ser Glu Tyr Ser Cys
 65 70 75 80
 Arg Glu Leu His Phe Thr Arg Tyr Val Thr Asp Gly Pro Cys Arg Ser
 85 90 95
 Ala Lys Pro Val Thr Glu Leu Val Cys Ser Gly Gln Cys Gly Pro Ala
 100 105 110
 Arg Leu Leu Pro Asn Ala Ile Gly Arg Gly Lys Trp Trp Arg Pro Ser
 115 120 125
 Gly Pro Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg Val
 130 135 140
 Gln Leu Leu Cys Pro Gly Gly Glu Ala Pro Arg Ala Arg Lys Val Arg
 145 150 155 160
 Leu Val Ala Ser Cys Lys Cys Lys Arg Leu Thr Arg Phe His Asn Gln
 165 170 175
 Ser Glu Leu Lys Asp Phe Gly Thr Glu Ala Ala Arg Pro Gln Lys Gly
 180 185 190
 Arg Lys Pro Arg Pro Arg Ala Arg Ser Ala Lys Ala Asn Gln Ala Glu
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 1 5 10 15
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 20 25 30
 Ala Thr Glu Val Ile Pro Gly Leu Gly Glu Tyr Pro Glu Pro Pro Pro
 35 40 45
 Glu Asn Asn Gln Thr Met Asn Arg Ala Glu Asn Gly Gly Arg Pro Pro
 50 55 60
 His His Pro Tyr Asp Ala Lys Asp Val Ser Glu Tyr Ser Cys Arg Glu
 65 70 75 80
 Leu His Tyr Thr Arg Phe Leu Thr Asp Gly Pro Cys Arg Ser Ala Lys
 85 90 95
 Pro Val Thr Glu Leu Val Cys Ser Gly Gln Cys Gly Pro Ala Arg Leu
 100 105 110
 Leu Pro Asn Ala Ile Gly Arg Val Lys Trp Trp Arg Pro Asn Gly Pro
 115 120 125

00007274-052001

Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg Val Gln Leu
 130 135 140
 Leu Cys Pro Gly Gly Ala Ala Pro Arg Ser Arg Lys Val Arg Leu Val
 145 150 155 160
 Ala Ser Cys Lys Cys Lys Arg Leu Thr Arg Phe His Asn Gln Ser Glu
 165 170 175
 Leu Lys Asp Phe Gly Pro Glu Thr Ala Arg Pro Gln Lys Gly Arg Lys
 180 185 190
 Pro Arg Pro Gly Ala Lys Ala Asn Gln Ala Glu Leu Glu Asn Ala Tyr
 195 200 205

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24

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<220>
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 <212> DNA
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29

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<220>
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<400> 11

ccatcctaatacgcactcactatagggc 27

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tgatcaggaagcgggtgtagtgcag 24

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<210> 14
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ggacacatctttggcgatcaggga 25

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tacacccgct tectgacaga c 21

<210> 16
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ccatcctaatacgcactcact atagggc 27

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ggtcaccgag ttgggtgtgct c 21

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actcactata gggctcgagc ggc 23

<210> 19
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<212> DNA
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cgtactagta agettcacc atgcagccct cactagcccc gtgcc 45

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tttggatecc gatcgtagt aggcgtcttc cagctccgcc t 41

<210> 21
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<220>
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tgtgtctcgt ctgctgctg gtacaca 27

<210> 22
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<223> Artificial: PCR primer

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gaagtcgggc ccactaggtc gcc 23

<210> 23
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<212> PRT
<213> Artificial: HIV TAT peptide

<400> 23

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
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<212> PRT
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<220>
<223> Artificial: FITC conjugated - HIV TAT peptide construct

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Gly Gly Gly Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
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<210> 25
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<213> Homo sapiens

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Phe Lys Asn Asp Ala Thr Glu Ile Leu Tyr Ser His Val Val Lys Pro
1 5 10 15

Val Pro Ala His Pro Ser Ser Asn Ser Thr Leu Asn Gln Ala Arg Asn
20 25 30

Gly	Gly	Arg	His	Phe	Ser	Asn	Thr	Gly	Leu	Asp	Arg	Asn	Thr	Arg	Val			
						35							40					45
Gln	Val	Gly	Cys	Arg	Glu	Leu	Arg	Ser	Thr	Lys	Tyr	Ile	Ser	Asp	Gly			
						50							55					60
Gln	Cys	Thr	Ser	Ile	Ser	Pro	Leu	Lys	Glu	Leu	Val	Cys	Ala	Gly	Glu			
						65							70					75
Cys	Leu	Pro	Leu	Pro	Val	Leu	Pro	Asn	Trp	Ile	Gly	Gly	Gly	Tyr	Gly			
						85							90					95
Thr	Lys	Tyr	Trp	Ser	Arg	Arg	Ser	Ser	Gln	Glu	Trp	Arg	Cys	Val	Asn			
						100							105					110
Asp	Lys	Thr	Arg	Thr	Gln	Arg	Ile	Gln	Leu	Gln	Cys	Gln	Asp	Gly	Ser			
						115							120					125
Thr	Arg	Thr	Tyr	Lys	Ile	Thr	Val	Val	Thr	Ala	Cys	Lys	Cys	Lys	Arg			
						130							135					140
Tyr	Thr	Arg	Gln	His	Asn	Glu	Ser	Ser	His	Asn	Phe	Glu	Ser	Met	Ser			
						145							150					155
Pro	Ala	Lys	Pro	Val	Gln	His	His	Arg	Glu	Arg	Lys	Arg	Ala	Ser	Lys			
						165							170					175
Ser	Ser	Lys	His	Ser	Met	Ser												
						180												